

Faculty of Law welcomes new dean

Michael Brown

Paul Paton, law professor and former vice-provost at the University of the Pacific, will be leaving his California posting to become dean of the Faculty of Law, effective July 1.



Paul Paton

"There is a tremendous energy at the University of Alberta that I have not seen elsewhere," said Paton, who will also take up the title Wilbur Fee Bowker Professor of Law in honour of the esteemed former dean of law who led the faculty from 1948-1968. "The U of A law school occupies a unique place historically and presently in the legal profession, certainly in the province, in Western Canada and nationally, and it is a great time to help move it forward to face new challenges."

Paton succeeds Philip Bryden, who has been dean since 2009.

"Dr. Paton believes that a Faculty of Law can and should play a central role in the academic, professional and public policy life of the communities it services locally, nationally and internationally," said U of A provost Carl Amrhein. "Dr. Paton is known for planning and implementing change in diverse environments. He has a strong reputation for an inclusive management style, operating with an effective combination of collegiality, discipline and deliberative action. He constructively demands excellence from himself and others, while helping students and colleagues 'raise their game.'"

Although there were no lawyers in his family growing up

Continued on page 2

A diamond discovery in the rough



Richard Siemens

Graham Pearson holds the \$20 diamond containing the first terrestrial sample of ringwoodite ever found, lending evidence to theories that water exists 400-700 kilometres beneath the Earth's crust. For the full story, go to page 6.

President Samarasekera will not seek third term

Folio Staff

President Indira Samarasekera says she will continue to focus on excellence and ensuring that the University of Alberta remains one of the world's leading public universities, after announcing she will not seek a third term.

Samarasekera announced her intention at the Board of Governors meeting March 14, and will end her term of service as the U of A's 12th president and vice-chancellor June 30, 2015.

"I will continue to work with the campus community to preserve, strengthen and advance the U of A's core mission, through the four objectives announced last fall during my State of the University Address: academic transformation, sustainable financial models, efficient administration, and culture change," she said.

She also reaffirmed her commitment to moving forward this four-point action plan and change agenda, supported by the board. This includes emphasis on fund development and seeking innovative alternate revenue sources, as well as continuing to work with government.



The search is underway for the 13th president of the University of Alberta, who will succeed current president Indira Samarasekera on July 1, 2015.

Internationally renowned as one of Canada's leading metallurgical engineers, Samarasekera was appointed U of A president and vice-chancellor on July 1, 2005, and re-appointed for a second term in 2009.

She has since led development of *Dare to Discover: A Vision for a Great University*, a seminal document that has acted as

the guiding force in the U of A's quest for excellence.

"My focus remains on the vision articulated in *Dare to Discover*," she said, "To inspire the human spirit through outstanding achievements in learning, discovery, and citizenship in a creative community, building one of the world's great universities for the public good."

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University begins search for its 13th president

Michael Brown

The University of Alberta has launched the search for its 13th president.

With word March 14 that President Indira Samarasekera would not be seeking a third term, Doug Goss, chair of the U of A board of governors, has announced the search for a new president has begun.

"The university is at a very transformational time," said Goss. "Indira has been an agent of change for the institution and she is working very hard to implement a change agenda, which the board of governors very much believes in.

"It is critical that the institution finds in its next leader that same kind of energy and enthusiasm for what she has started, so we as an institution have the ability to go to the next level."

Goss will chair the Advisory Search Committee for President, a committee comprising key members of the community with the mandate to bring forward a recommendation

to the board of governors for approval. It is expected that a successor will be appointed in time to take on the position July 1, 2015.

"It is critical that the university continues to lead and be a university that competes with the best public teaching, research-intensive universities in the world."

Doug Goss

"This is an important time for the province with its resources. It is critical that the university continues to lead and be a university that competes with the best public teaching, research-intensive universities in the world," said Goss. "For us to do anything less in this province really would not do justice to the institution, the province or even Canada."

Goss also announced that global search firm Perrett Laver has been awarded the executive search contract to support the search following a competitive bid process.

"The challenge will be to match up the skill set of the next leader with the opportunity that we see here to take this institution to the next level. Indira has built it on that basis," said Goss.

He added, "There has never been a more important time in the history of the university, city, province and country to be searching for a president. The next president will build on our strengths and will be charged with taking us to the next level and continuing our momentum to build on the board of governors' change agenda."



Doug Goss

Since her appointment as U of A president and vice-chancellor on July 1, 2005, Samarasekera has led the university through a transformational time of immense growth and the development of a bold agenda of initiatives, including *Dare to Discover: A Vision for a Great University*, a seminal document that has acted as the guiding force in the U of A's quest for excellence.

In announcing her intention not to seek a third term at the board of governors meeting March 14, Samarasekera reflected fondly on her time on campus.

"I have had an extraordinary opportunity to come to Alberta, to become Albertan and absorb the culture, and to lead what truly is national treasure. The university is in a superb position to appoint a successor," she said.

"It is with some sadness that I have to announce that my time here is coming up."

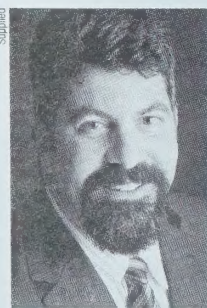
For information and updates on the presidential search and transition, go to uofa.ualberta.ca/presidential-search. ■

New dean of law looking forward to making case for renewed investment in law

Continued from page 1

in Mississauga, Ont., Paton—whose Ukrainian ancestors first settled in the Alberta prairies in the late 1800s—says he remembers a household with a healthy respect for the power of law, legal institutions and parliament in Canada, and respect for the role of lawyers in facilitating access for people who otherwise wouldn't be able to get access themselves.

"Understanding and appreciating the law, and the importance of giving back through public



Paul Paton

a specialist focus on international relations, and as the John Moss Scholar, the school's top undergraduate student in the faculty of arts and science.

Paton's academic standing led him to Cambridge, where he completed a master of philosophy in international relations before returning to the U of T to study law. In 1992, Paton was selected to clerk with Chief Justice Charles Dubin and the justices of the Court of Appeal for Ontario. The late Chief Justice Dubin, one of Canada's most prominent litigators, was perhaps best known nationally for heading up the Dubin Inquiry into the Ben Johnson steroid scandal.

A year later, Paton left the court of appeal for a Bay Street law firm, rising to partner in four years as a corporate litigator before taking a post as justice and social policy adviser to Ontario premier Mike Harris.

In 1998, Paton began a six-year stint as an in-house counsel to PricewaterhouseCoopers LLP, heading the firm's Canadian multidisciplinary practice initiative and serving as senior legal adviser to the firm's national tax practice leadership.

But Paton never strayed too far from his academic roots. He spent the better part of a decade splitting time between practising law and teaching in the U of T's Canadian Studies Programme, which included three years as the program's associate director and a year as acting director.

"Law is a very powerful degree with extraordinary flexibility," said Paton. "Being exposed to various practice environments afforded me a unique insight into both the opportunities and challenges of bringing the academy together with the profession, while at the same time making sure the academy is attuned to these different professional environments and challenges."

In 2001, Paton took a year's leave from PricewaterhouseCoopers to become a fellow in the Stanford Program in International Legal Studies, where he earned his JSM and became one of only six applicants accepted into the Stanford Law School's JSD program from his cohort. While working on the doctorate he completed in 2007, he was a fellow in what was then Stanford's Keck Center on Legal Ethics, and was awarded grants by Stanford's Institute for International Studies for his comparative work on regulation of the legal profession.

In 2004, Paton joined the academy as assistant professor in the Faculty of Law at Queen's University, then as professor of law at the University of the Pacific McGeorge School of Law in Sacramento, Calif.

"We need to make sure we're poised to address and anticipate challenges, while preparing students for excellence in the way that U of A legal education is known for internationally."

Paul Paton

Paton became renowned for his research on ethics in corporate contexts, on the role of corporate counsel, on comparative approaches to lawyer regulation and, in particular, on the transformation of structures for legal services delivery. He served two terms as chair of the Canadian Bar Association's Ethics and Professional Responsibility Committee, and was appointed as the reporter, or expert research resource, to the American Bar Association Ethics 20/20 Commission.

As a teacher, Paton gave as good as he got. "I was fortunate very early on to have very passionate teachers, and in many respects my work in the academy honours their legacy," he said. "I have viewed my students as the

professional colleagues they've become, and teaching ethics and professional responsibility has given me an especially important opportunity to play at least a small role in their professional formation."

It was back on the West Coast, however, that Paton really began to relish administrative roles. "It is a time of incredible transformation for the legal profession and for legal education, as well as for university education generally. I've been fortunate to have had experiences—both administrative and professional—that will help prepare us to identify how we can lead the way forward, and then implement the changes necessary to get there."

Paton leaves the University of the Pacific as director of the McGeorge Ethics Across the Professions Initiative, a 10-year, \$250,000 grant, and as the 2014 recipient of the Ontario Bar Association's Distinguished Service Award. But he points to his experience as vice-provost as "an incredible opportunity to see from 20,000 feet how best administrators can work with faculty staff, students and alumni to effect change."

As vice-provost, Paton provided leadership across the University of the Pacific's academic portfolio, including direct oversight of the associate and assistant vice-provosts for academic affairs, research and professional and continuing education, as well as the university's Center for Teaching and Learning and International Programs and Services. He also chaired the Information Strategy and Policy Committee responsible for advising on technology across the campus, directed market research for new graduate programs and collaborated on academic renovation projects and facilities utilization.

Paton says those experiences will serve him well as he helps the faculty build on the best of its traditions of academic excellence, student success and public service. Ensuring it remains nimble and responsive in its dedication to scholarship, teaching and learning will require community commitment.

"People have to see the value in investing in the university and in the faculty, and I look forward to making the case for a renewed and robust commitment in resources and in student support that will allow the faculty to do more and do it better," he said. "We need to make sure we're poised to address and anticipate challenges, while preparing students for excellence in the way that U of A legal education is known for internationally." ■

Architectural plan aims to reconnect the spaces in between

Michael Brown

It might be the world-class laboratories, classrooms and facilities that stand among the University of Alberta's greatest attributes, but it's the exteriors of those buildings and the open spaces linking the campus that go further than anything else toward creating the ever-important first impressions—and some of the longest-lasting ones.

"For new recruits who visit the campus before they make their final decision on whether they are going to study here, the quality of life, the appeal, the image, the brand of a campus do help them make that final decision to say, 'I can see myself living here for the next four years,'" said Ben Louie, university architect.

With that in mind, Facilities and Operations is on a mission to come up with a plan to reconnect, or restitch the open spaces on North Campus that connect buildings and special places that enrich the university community's daily activities.

"To me, this assignment attempts to connect fragments of open spaces on campus that, for one reason or another, are results of remnants of space from separate building projects or incremental improvements to campus operations," said Louie. "This assignment's goal is to create cohesive positive linkages to support and enhance the campus

experience, and to reinvigorate campus life for our community."

Louie says the plan, titled Open Space Master Plan – Enhancing Your Campus Experience, will act as an enlightened counterbalance in defence of the silent open spaces between buildings and pressure and demands for additional academic and research facilities or student residences on campus.

"In a way, this plan is an act of defiance to champion the public realm—in our consciousness as well as in physical form, starting with drawings and plans," said Louie. "It highlights the significant interdependency of individual components and the totality that distinguishes our campus, reminding us of our history and identity."

Peter Alexander, associate director of campus planning and architecture, says the open spaces have been neglected over the years largely because each successive generation has constructed its

buildings according to need with the sole purpose of maximizing the floor plate.

"It's not that a particular building isn't needed, it's how that building is located in relationship to the bigger picture," said Alexander.

"By restitching the functional parts, we are also trying to reemphasize the importance of open space. Without open space you are missing an important element to your daily work life here."

These plans, which were created through an extensive committee process involving a range of stakeholders from across the university spectrum, will be on display March 27 first as a series of pop-up presentations held over the lunch hour at Arts Quad, CCIS West Atrium and Education North under the mural, then again in the evening as part of a larger symposium with keynote and panel discussion starting at 7 p.m. in 1-140 CCIS.



This drawing shows what could be the transformation of the open space between the Agriculture/Forestry Centre, SUB and Pembina Hall.

Prof keeps close eye on surveillance creep

Michael Brown

Kevin Haggerty remembers sitting at the dinner table as an undergraduate student having hypothetical conversations with his father, an RCMP officer, about what would happen if, for example, government allowed widespread use of video surveillance to monitor people's everyday activities.

The hypotheses drawn during those animated conversations varied, but all essentially held a common thread: "I think most people would have taken to the streets."

Nearly three decades later, Haggerty—now a surveillance expert in the University of Alberta's Department of Sociology—says society is in the midst of "a world historical transformation in the dynamics of visibility." He wants to know how it happened—and he has received a financial boon to aid him in his quest.

Haggerty was one of just five Canadian researchers to receive the 2014 Killam Research Fellowship. The two-year, \$140,000 prize grants teaching and administrative release to scholars who are engaged in research projects of outstanding merit and widespread interest, so they may pursue independent research.

Haggerty intends to use the fellowship to write a book aimed at a popular audience that attempts to outline the factors that allowed broad surveillance to become a part of everyday life.

"I could almost call the book *How Did This Happen?* If you went back in time 25 or 30 years, and you told people that all of their main form of communication was going to be monitored by the state or corporations and there are going to be cameras everywhere, people would have said there is no way that's going to happen. Well, 30 years later it's happened."

Haggerty says there won't be a single contributing factor in the arrival of a "surveillance society," citing a long list that includes post-9/11 fears, a complicated generational understanding of privacy, historic technological development, political apathy and, by and large, a failure of the legal system.



Kevin Haggerty is the recipient of one of just five 2014 Killam Research Fellowships nationally.

"On the whole, a sweep of developments has been monumentally towards more and more surveillance, and the legal system has proved to not be particularly effective at checking that tide," he said.

"I think one of the more eye-opening things is the scope of surveillance; people understand that we live in a society with a lot of monitoring, but the amount of information being collected is unfathomable."

And just as no one could have predicted the rampant infiltration of surveillance into everyday life, it would have been impossible to forecast the influence Haggerty's curiosity-driven research is having on the prevailing discussion concerning the place of surveillance in society when he first came to the U of A in the late '90s.

"This is a university that knows what it is. It understands how to support researchers and it understands what research is, and that's not true of all universities," he said. "I think the university has given me the freedom to follow topics that, when I started out, weren't hot-button topics."

"However, more recent developments have shown that allowing me to follow my instincts and follow what I believe to be important was crucial." ■

Killam

The plans show the campus identified in 10 precincts based on similar characteristics such as location, architecture, size of open space and maturity of landscape.

From there, the designers have listed challenges and opportunities for each precinct, and have imagined how various disjointed aggregate pieces of open space can be linked, using practices ranging from

planting an allée of trees to removing pieces of physical structures to create better campus connections.

"Like the air that we breathe and share, the campus is the public realm that provides connections to individual components and dreams of the university community," said Louie. "It is our common stage that either sustains and enriches us, or represses us if left uncared for." ■

Forum focuses on change agenda

Bryan Alary

Indira Samarasekera will spend her final 15 months as University of Alberta president focused on advancing the board of governors' change agenda, which includes her own four-point action plan.

Samarasekera expects to be extremely busy during these remaining months, checking off priorities requiring her attention. At the top of her list is implementing the board's change agenda through the four pillars of her plan: academic transformation; sustainable and flexible financial models; effective, efficient administration; and culture change.

"The board of governors has no intention of letting me off the hook and neither do I. The next 15 months are going to be very, very busy," Samarasekera told a roomful of faculty, students and staff at a March 19 campus forum.

Last week, Samarasekera announced she will step down as president when her term ends on June 30, 2015, a decision that initiated an international search for her successor. Board chair Doug Goss will lead that process, overseeing an advisory committee of 15 members of the campus community.

With the search now underway, Samarasekera said she can devote her full attention to key priorities for the university, including the four-point plan.

On the subject of academic transformation, the U of A's administration, in consultation with the Students' Union and an academic committee, has developed the main elements of the Peter Lougheed Leadership College. The initiative received operational funding in the recent provincial budget, and Samarasekera said it will provide learning opportunities across disciplines, focusing on a range of leadership styles.

On the subject of the Renaissance Committee's final report, Samarasekera said administration and the Association of Academic Staff University of Alberta are working through the details of what was a "mammoth effort," and are now gathering feedback and assessing immediate and longer-term priorities.

"We're not going to let that effort go for naught. We really want to take advantage of it and I think we are really working through it," she said.

Generating new sources of revenue remains a top priority, Samarasekera said, noting \$6 million has been allocated to provost Carl Amrhein to support innovative funding models put forward by faculty deans.

Amrhein said he spent his recent sabbatical learning about how universities in countries such as China, Australia and Germany—which are less reliant on government for operating dollars—find ways to generate revenue. Some have created very successful non-professional master's programs, available to anyone anywhere in the world, with the proceeds helping to fund other areas of the institution.

"We may wish that we didn't have to change the basic structure of the university; however, if you look at the success of some of these other institutions, like the University of Melbourne, the University of Toronto, the University of Sydney or the University of Munich, these are institutions that with a very, very complex business model have at the same time been very successful academically."

Samarasekera said the U of A is also making steady progress at improving administrative efficiencies, reducing operating spending increases below the government's five per cent benchmark. In fact, the U of A has steadily reduced that number from 4.8 per cent in 2009-10 to 4.1 per cent in 2010-11 and 3.6 per cent in 2011-12.

In addition to the four-point plan, Samarasekera said the university will soon submit to government this year's Comprehensive Institutional Plan, which outlines a balanced budget and reinforces that the U of A is an essential part of Alberta's success and ongoing social, cultural and economic prosperity. This year's plan also emphasizes the importance of graduate education, the need for basic research, the value of motivated and skilled undergraduate students, and the university's work to train highly skilled individuals.

Samarasekera said advocating the U of A's benefit and importance to Alberta remains among her top priorities, through constant dialogue with Innovation and Advanced Education Minister Dave Hancock, MLAs and Albertans across the province.

"I know the last 12 months have been very difficult. I know the pain is not over, but I'm optimistic that we're going to move toward what will be a better period." ■

One-third of kids with obesity 'metabolically healthy,' study shows

Bryan Alary

Digits on a scale can help determine a child's weight, but their overall health status can be influenced by other factors such as physical activity, diet and screen time, according to new research from the University of Alberta and Alberta Health Services.

A study of 181 children with obesity aged eight to 17 years old showed that up to a third could be classified as "metabolically healthy," meaning they're not imminently at risk of developing insulin resistance—a precursor to Type 2 diabetes—high blood pressure, high cholesterol or other obesity-related diseases.

"It's not all about fat, even for kids who meet the definition of obesity," explained Geoff Ball, senior author and associate professor of pediatrics in the Faculty of Medicine & Dentistry, and clinical director of Stollery Children's Hospital's Pediatric Centre for Weight and Health, a weight management clinic for children with obesity. "Lifestyle behaviours—how physically active they are and what they eat—those things have an effect on their health, independent of fatness."

A PhD in nutrition and metabolism, Ball and his team studied five years' worth of clinical data, tracking the age and body composition of obese children, lifestyle behaviours such as physical activity and diet, along with clinical indicators associated with obesity such as insulin resistance, blood pressure, and fat and glucose levels in the blood.

Though numerous studies have explored whether patients with obesity can be metabolically healthy, few have focused on children. In addition to being more physically active, metabolically healthier children were younger, shorter, lighter and less overweight than their metabolically unhealthy peers. They also spent less time in front of the TV, computer or video game console and ate fewer overall

calories, including less fat and fewer servings of meat.

The study included traditional measures of obesity such as body mass index, which factors in an individual's height and weight but doesn't tell the whole story, Ball said.

"Obesity is often described as a complex disease with lots of causes and lots of consequences. Not everyone has the same consequences," he said. "Someone with Type 2 diabetes could have less body fat than somebody who has quite a bit more body fat and doesn't have Type 2 diabetes. There is considerable variability between individuals."

Ball said the findings should help physicians and other health professionals understand the complexity of obesity for treating patients and prioritizing referral to specialized



Geoff Ball

weight-management care. Roughly two million young, obese Canadians meet eligibility criteria for such treatment—far more than the two dozen or so clinics across the country can accommodate, he added.

For Edmonton-area patients, having access to the comprehensive management approach at the

Stollery's Pediatric Centre for Weight and Health means families receive the most appropriate intervention based on their health status and individual needs. The multidisciplinary team, including a physician, registered nurse, registered dietitian, exercise specialist, and psychologist provide healthy lifestyle messages to children and families that assist them on their journey towards greater health and well-being.

Ball's team is now focusing on a larger national study, including what happens to children with obesity—metabolically healthy or otherwise—over time and whether risks of obesity-related illness eventually catch up. That work will see the researchers recruit 1,600 Canadian children currently receiving weight-management care and follow them over several years through lifestyle

interventions that focus on improving health and well-being.

Ball said these kids and their families are accessing health services that hopefully have a positive effect on their health and well-being. Health professionals need to know whether children who are metabolically healthy stay that way over time as they mature and if there are conditions in the health system and beyond that help make it possible.

"Since most children with obesity find it challenging to lose and maintain weight loss over time, improving metabolic health by being physically active and eating healthfully is an important result in and of itself."

Ball's research was published in the journal *Diabetes Care* and funded by Alberta Innovates – Health Solutions and the Canadian Institutes of Health Research. ■

Researcher examines effectiveness of pediatric obesity interventions

Amy Hewko

Childhood obesity affects 20 to 30 per cent of young Canadians, and many of these children face serious health problems into adulthood, including diabetes and heart disease.

To help address the problem, clinics like the Stollery Children's Hospital's Pediatric Centre for Weight and Health (PCWH) offer individualized, interdisciplinary health services to help children and their families learn about proper nutrition, physical activity and other healthy habits. Families connect with dietitians, mental health professionals, pediatricians and other health-care professionals to develop a plan that caters to their individual habits, needs and abilities.

But how effective are these services?

Principal investigator Geoff Ball, associate professor of pediatrics with the Faculty of Medicine & Dentistry, and lead author Jillian Avis, graduate student, led a team of experts to find the answer. They gathered information over a four-year period and included 165 patients referred to the PCWH by their physicians. The team looked at three components of the program: how children's weight changed over time, what services in the program were

used and whether children became disengaged with the program. The study was published in *Paediatrics and Child Health*, the official journal of the Canadian Paediatric Society.

Children who participated for the full length of the program showed positive results. Assessments during the third and fifth months revealed that 55 per cent of participants either maintained or decreased their weight. That number increased to 75 per cent at the final assessment in the 11th month.

According to Ball, disengagement is a big challenge for pediatric obesity clinics. PCWH is no exception: by the final assessment, 73 per cent of the original patient sample had discontinued care.

"When families discontinue care, we usually don't get a specific explanation or reason why," he said. "However, motivation to change is key. A lot of the families who attend when they are ready, willing and able can make healthy changes."

Some of the barriers families experience may include economic stress, family problems or priorities that simply aren't focused on health. Ball emphasizes that misconceptions about the services may also prompt disengagement, but, he says, rather than being put on a strict diet and exercise program, families are more

likely to receive coaching and support to make healthy habits.

"One of the biggest challenges to overcome is conceptualizing obesity as a chronic illness," Ball said. "It is incredibly difficult for families to make healthy changes to diet and exercise when they're bombarded by conflicting messages and environmental cues that tell us to eat whatever we like and be as sedentary as possible. There's a lot of mental power and social support needed to overcome those choices on a day-to-day basis."

Ball says the most important part is raising awareness with parents about the impact the home environment has on their children's health, but strategies have to be personalized to each family to make them meaningful. For example, health professionals may recommend removing televisions and game consoles from children's bedrooms, but that might not be a priority for some families. In such cases, health professionals can focus on other areas for change.

"We want to empower parents to be the best that they can be. We want to address any barriers they have and help them access resources and information," Ball said. "It's about how we can help the families and what kinds of things they already have in place so we can build on their strengths." ■

Declining obesity rates offer hope for future

Michel Proulx

Despite recent news during the past two decades that teenagers weren't getting healthy nutrition, the trend seems to have improved in the last five years.

"There is hope for the next generation," said Linda McCargar, a nutrition expert who delivered the Department of Human Ecology's annual Empey Lecture.

McCargar, a faculty member in the Department of Agricultural, Food and Nutritional Science, has examined nutrition, physical activity and obesity in Alberta youth for the last 10 years. She said that people took notice when alarming statements began appearing about the declining nutritional habits of children and their consequences. She cited Richard Carmona, a former Surgeon General of the United States, who stated while testifying to a U.S. Senate Committee, "... because of the increasing rates of obesity, unhealthy eating habits and physical inactivity, we may see the first generation that will be less healthy and have a shorter life expectancy than their parents."

The situation was similar in Canada, with a high prevalence of overweight children and adolescents. From 1979 to 2004, the obesity rate among 12- to 17-year-olds in Canada tripled from three to nine per cent, and the overweight rate almost doubled, from 11 to 20 per cent. At the same time, cases of children diagnosed with Type 2 diabetes were on the increase.

McCargar said Statistics Canada data revealed in 2004 that 10 per cent of children skipped breakfast while another new trend was emerging: 22 per cent of a child's caloric intake came from items outside the four food groups, with half of those calories coming from high-calorie beverages such as soft drinks and sports drinks.

McCargar noted that there were very few studies on diet and exercise at the time in this age group. In 2005, she and her team conducted the Web-Survey of Physical Activity and Nutrition, a large web-based survey in which 5,000 Alberta schoolchildren from grades 7 to 10 answered health behaviour questions.

Overall, 42 per cent of respondents had poor diet quality, 50 per cent had average diet quality and only eight per cent had superior diet quality. About half of the students had at least two of five key risk factors for diabetes: inactivity, high fat intake, poor diet quality, smoking, and being overweight or obese.

In the ensuing three years, between 2005 and 2008, many health promotion activities were launched in Alberta, targeted at this age group. They included, among others, the establishment of a school community wellness fund, the start of a provincial daily physical activity initiative and the development of nutrition policies by many school boards.

In 2008, McCargar and her team repeated the comprehensive survey of Alberta teenagers and found a significant reduction in the prevalence of overweight and obesity in youth. The



Nutrition expert Linda McCargar (left), seen here with Deanna Williamson, chair of the Department of Human Ecology, delivered the department's annual Empey Lecture.

rate of teenagers who were overweight dropped from 15.1 per cent to 13.9 per cent, while the percentage of obese teens also dropped, from six per cent to 4.5 per cent.

McCargar also noted reductions in seven risk factors for diabetes and presented a graph, published by the U.S. Centers for Disease Control and Prevention, that showed either a decrease or no change in about 40 U.S. states or territories, and an increase in only three states.

"The prevalence numbers are still quite high," said McCargar, "but this trend is different than in the last two or three decades." ■

English prof brings truth and reconciliation to the classroom

Geoff McMaster

Filtered through intellect and specialized language, the study of any academic subject can sometimes lack emotion and immediacy.

That's one reason English professor Keavy Martin is taking her students of Aboriginal literature to the final meeting of Canada's Truth and Reconciliation Commission later this month, where they will hear first-hand accounts—in all of their raw and often disturbing detail—from survivors of Canada's residential school system.

The commission, established in 2008, has travelled to 600 communities in the last six years, bringing to light thousands of stories of the abuse of 150,000 Aboriginal children who were removed from their families between 1870 and 1996, when the last school closed near Regina.

Some 4,000 people are expected to attend the meeting at the Shaw Conference Centre in Edmonton March 27–30, after which the commission will begin preparing its public report. True and lasting reconciliation, however, will take years of healing, says Martin, involving the kind of reflection she encourages in her course, *Indigenous Literatures and the Problem of 'Reconciliation' in Canada*.

"We've got a mixed class with some of what we call intergenerational survivors. Their parents or grandparents went to residential schools and so are still dealing with the impacts of that," says Martin. "It can be very different for them than for some of the students who are descendants of settlers coming to terms with this reality for the first time."

"What I'm hoping is that the students think a lot about what it means to grapple with this history, and are able to connect it to their present lives and families."

The challenge in class discussions is to lean away from easy solutions and the desire to simply "get over it," says Martin.



Keavy Martin

The reality of abuse can be hard to face, especially because it so radically contradicts deeply held myths of Canada as a nation of peacekeepers, as a champion of human rights.

"Often the horror comes with the desire to say, 'OK, if we could just communicate better this would be fine. If people could just heal and forgive, we could move on,'" says Martin, whose own SSHRC-funded research project, *Creative Conciliation*, explores how indigenous arts and arts-based research can fruitfully contribute to reconciliation.

"My research is conceived around the end of the TRC to ensure that conversations continue and there isn't a false sense of closure afterwards. The commission has been pretty clear about that—that it will take many generations for many people to achieve a more balanced relationship. It's not just about sharing truth and achieving healing; it might also be about larger changes in our society that will require effort on the part of non-Aboriginal people."

In conjunction with the TRC meeting, Martin is helping to organize the Indigenous Writers Gathering March 21 with six Canadian Aboriginal writers, including celebrated B.C. author Eden Robinson, whose *Monkey Beach* has become a classic of contemporary Canadian fiction. Also appearing are Marilyn Dumont, Daniel Heath Justice, Gregory Scofield, Anna Marie Sewell and Richard Van Camp.

"Many of these authors comment on the history of residential schools, but also on the contemporary impacts of that system that are still ongoing," says Martin.

Martin will also participate in a panel discussion March 20 called "Understanding #TRC: Exploring Reconciliation, Intergenerational Trauma and Indigenous Resistance," organized by the Faculty of Native Studies and including one of the TRC's three commissioners, U of A alumnus Wilton Littlechild, as well as James Daschuk, Ian Mosby and Rebecca Sockbeson.

"I'm one of the few settler Canadians appearing on the panel," says Martin. "Because I have family history in Edmonton I can locate myself that way. This kind of issue requires us, even as professors, to engage personally and emotionally, and that is a very different way of speaking, especially in the academic world."

"So I'll try to talk not only in an abstract, intellectual way, but also from my own experience and history, and to really think about what the role of people like me could be in this larger process of reckoning with the colonial past and present, and in trying to achieve a more balanced relationship."

For more on the U of A's involvement with the Truth and Reconciliation Commission, go to uofa.ualberta.ca/truth-and-reconciliation-commission. ■

Video game allows player to rewrite tragic demise of ballet heroine

Geoff McMaster

Ever been frustrated with a story's ending, wishing the protagonist had more power to change the outcome?

Video games are making it possible to rewrite traditional narratives like never before. And now a new partnership between English professor Nora Stovel and computing scientist Vadim Bulitko may well be the first to apply the technology to the world of ballet.



Nora Stovel

The two researchers are working on a game called *iGiselle*, based on the Romantic ballet *Giselle, ou les Wilis*, first performed in Paris in 1841. In the original libretto, the ballerina's character dies of a broken heart at the end of the first act after learning that her lover Albrecht is betrothed to another woman. After summoning Giselle from her grave to return as a ghost, a group of supernatural women called the Wilis, maidens who have died before their wedding, conspire to dance Albrecht to death, but in the end Giselle frees him from their grasp.

The video game, however, allows players to choose a different, less fatalistic path for Giselle, ending her with a kind of agency more in line with the values of a modern-day woman.

"Romantic ballets don't feature women as we now think they are, or should be," says Stovel, who studied ballet dancing as a teenager

and went on to teach it for some 20 years while raising a family and pursuing graduate work in English.

"Especially in these 19th-century ballets, women are idealized and etherealized. In *Giselle*, because she's a ghost, the partner lifts her as if she's flying, and she appears to be weightless. The pointe work is also used to suggest that she's not really walking on the ground, but just skimming the surface."

In her book project, *Women With Wings: The Romantic Ballerina*, funded by a KIAS Cluster grant from the U of A's Kule Institute for Advanced Study, Stovel describes how classical ballerinas are often divided figures—sexual icons at the same time as ethereal, idealized beings—and they often die at the midpoint of the story, and then return from the grave, to underscore that duality.

"Giselle in Act 1 is lively, charming and girlish, and as a spirit in Act 2 she is very ethereal," says Stovel. "And it's the same dichotomy with *Swan Lake*—you have the white swan and the black swan, usually danced by the same dancer."

"I thought it might be really interesting to create a video game where people could rewrite these tragic narratives," she says.

And so Stovel, Bulitko and a team of graduate students are hard at work figuring out how Giselle might escape this binary trap as they devise alternatives to the heroine's tragic trajectory.

At one point in the video game, for example, Albrecht proposes to Giselle, and she has the option of either accepting or refusing, which will alter subsequent events. Later, when she learns of Albrecht's betrayal, she is presented with a number of choices, including revenge, forgiveness or simply "standing up to the demanding people in her life and pursuing the path that will bring her the greatest happiness."

Bulitko stresses it's not a game in the competitive sense—there is no

winning or losing per se, just the exploration of new narrative possibilities. It's not unlike the *Choose Your Own Adventure* book series that was popular in the 1970s, says Bulitko.

"What if Giselle doesn't have to die? How would the world be if she survives? How would her relationships be changed?" asks Bulitko, who learned of Stovel's ballet project in a chance meeting at the U of A's Faculty Club and thought it would make a challenging and novel "test bed" for his new technology, partly based on emotion-modelling techniques developed at the U of A.

According to that model, each player has "a unique story experience while remaining on the same emotional path," says Bulitko. It's not unlike coding for archetypal patterns found throughout literature.

"So the computer is going to pick events, dynamically as the game progresses, to try to keep the player on a certain emotional trajectory," he says. "If, for example, it's time for the player to feel depressed and the player isn't depressed, the computer will try to find the next narrative event to depress the player."

Stovel and Bulitko say *iGiselle*'s creators expect a "bare-bones" version of the final product to be ready

for demonstration by this summer and are hoping it will be ready for distribution by Christmas. ■



To build visuals for *iGiselle*, Vadim Bulitko and his team shot photos of ballet dancers at a recent Edmonton production of *Giselle*. Featured here is Kiera Keglowsitch playing the character of Myrtha.

Are You a Winner?

Congratulations to Susanne Barton, who won a Butterdome butter dish as part of Folio's March 7 "Are You a Winner?" contest. Barton was able to identify the photo as the hurdles during the Canadian Interuniversity Sport Track and Field Championships held at the Butterdome March 6–9. Up for grabs this week is another Butterdome butter dish. To win it, simply name the object in the photo and email your answer to folio@ualberta.ca by noon on Monday, March 31, and you will be entered into the draw.



Rare mineral find points to vast 'oceans' beneath the Earth

Bryan Alary

It might be the ugliest diamond you'll ever see, but within this brown sliver of carbon is a gem of a find for a University of Alberta scientist working to unravel an ocean-sized mystery deep beneath the Earth.

An international team of scientists led by Graham Pearson, Canada Excellence Research Chair in Arctic Resources at the U of A, has discovered the first-ever sample of a mineral called ringwoodite. Analysis of the mineral shows it contains a significant amount of water—1.5 per cent of its weight—a finding that confirms scientific theories about vast volumes of water trapped 410 to 660 kilometres beneath the Earth, between the upper and lower mantle.

"This sample really provides extremely strong confirmation that there are local wet spots deep in the Earth in this area," said Pearson, a professor in the Faculty of Science, whose findings were published March 13 in *Nature*. "That particular zone in the Earth, the transition zone, might have as much water as all the world's oceans put together."

Ringwoodite is a form of the mineral peridot, believed to exist in large quantities under high pressures in the transition zone. Ringwoodite has been found in meteorites but, until now, no terrestrial sample has ever been unearthed because scientists haven't been able to conduct fieldwork at extreme depths.

Pearson's sample was found in 2008 in the Juina area of Mato Grosso, Brazil, where artisan miners unearthed the host diamond from shallow river gravels. The diamond

had been brought to the Earth's surface by a volcanic rock known as kimberlite—the most deeply derived of all volcanic rocks.

Pearson said the discovery was almost accidental in that his team had been looking for another mineral when they paid about \$20 for a three-millimetre-wide, dirty-looking brown diamond. The ringwoodite itself is invisible to the naked eye, buried beneath the surface, so it was fortunate that it was found by Pearson's graduate student, John McNeill, in 2009.

"It's so small, this inclusion, it's extremely difficult to find, never mind work on," Pearson said, "so it was a bit of a piece of luck, this discovery, as are many scientific discoveries."

The sample underwent years of analysis using Raman and infrared spectroscopy and X-ray diffraction before it was officially confirmed



Graham Pearson led the team that discovered the first terrestrial sample of ringwoodite ever found, inside a rough brown diamond (inset).

as ringwoodite. The critical water measurements were performed at Pearson's Arctic Resources Geochemistry Laboratory at the U of A. The laboratory forms part of the world-renowned Canadian Centre for Isotopic Microanalysis, also home to the world's largest academic diamond research group.

The study is a great example of a modern international collaboration with some of the top leaders from various fields, including the Geoscience Institute at Goethe University, University of Padova, Durham University, University of Vienna, Trigon GeoServices and Ghent University.

For Pearson, one of the world's leading authorities in the study of deep Earth diamond host

rocks, the discovery ranks among the most significant of his career, confirming about 50 years of theoretical and experimental work by geophysicists, seismologists and other scientists trying to understand the makeup of the Earth's interior.

Scientists have been deeply divided about the composition of the transition zone and whether it is full of water or desert-dry. Knowing water exists beneath the crust has implications for the study of volcanism and plate tectonics, affecting how rock melts, cools and shifts below the crust.

"One of the reasons the Earth is such a dynamic planet is because of the presence of some water in its interior," Pearson said. "Water changes everything about the way a planet works." ■



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Winter bug count nets the unexpected

Elizabeth Ng

A type of ant that usually resides in warm climates was found for the first time in Canada, in an apartment in Westlock in the dead of winter.

It was one of 107 species recorded during the third annual Winterbugs Alberta, a winter bug count led by John Acorn, faculty service officer in the Faculty of Agricultural, Life and Environmental Sciences.

One of Acorn's former students brought him the tiny, reddish ant specimen.

"I couldn't ID it," chuckles Acorn. "It was embarrassing because we had just published a key to the ants of Alberta. An ant specialist from the United States identified it—the ants have been showing up in Massachusetts, Poland and Germany. As far as we know, it's not a pest."

The count takes place from December to February when bug enthusiasts from across the province post their findings, which can range from flies, fleas and mites to beetles and even butterflies, on the project's Facebook page.

The count takes place from December to February when bug enthusiasts from across the province post their findings, which can range from flies, fleas and mites to beetles and even butterflies, on the project's Facebook page.

Muppets join U of A medical faculty

Amy Hewko

Jonathan White never thought more than 1 million people worldwide would hear him say the words, "Welcome to Surgery 101!" But then, he never thought he would work closely with a pair of Muppets either.

As the University of Alberta's Surgery 101 podcasts and app near 1.2 million downloads, White wanted to do something a little different to keep his growing audience informed and entertained. A survey revealed that 75 per cent of the app's users wanted videos, and a "rainbow connection" led to the creation of Dr. Scalpel and surgical resident Thumbs—licensed Muppets named after surgical tools. In each episode, the happy-go-lucky Muppets teach medical students about surgical practice.

"People engage with them because it's a common cultural touchstone. How can you not like this guy?" White said in reference to Thumbs, the orange Muppet who is a third-year surgical resident in the Faculty of Medicine & Dentistry.

The first episode of *Muppet Surgery*, released in January 2014, introduces medical students to what they can expect when they begin their surgical rounds. Thumbs and Dr. Scalpel, ready for the operating room in their standard-issue scrubs and white coats, help debunk rumours about surgical rounds based on real tweets from medical students.

One of White's favourite things about the app is how users foster its growth through the Surgery 101 Network, a forum where users submit their ideas for future episodes. In one case, a subscriber in Australia created an anatomy podcast with accompanying PowerPoint slides. When a request comes from a U of A student, White pairs the student with a specialist physician on staff and challenges the duo to create a

The bugs, which can be found indoors or out, are counted if they're active on their own and not roused from hibernation. If the exact species isn't known, Acorn and other professionals will try to identify the bugs through photos or detailed descriptions.

This year, bugs were found in houses and greenhouses, in heated barns, on chickens, in basil from B.C., on a dead red squirrel, and even in a container of flour and in the snow. Most are what Acorn calls "predictable household bugs," like spiders and beetles. But he notes that the count was surprising in terms of what wasn't found.

"When we started this, there was an assumption people would report the insects we know are active in the winter, like springtails, snow fleas and wingless crane flies. You can find them on the snow on warm days. But those have proved to be rare," he said.

This year's count yielded some other unexpected finds. A new species of cluster fly was spotted in Edmonton. The first count yielded a mite that also hadn't been seen in Canada before, living in the bottom of Acorn's pet scorpion's cage.

This year's count is still being compiled—some photos and notes were sent in just before the deadline—but Acorn hopes the count will only get bigger in the years to come.

"There's a competitive urge to be the first person to report the first bug of the season and also be the one who finds the most." ■



Jonathan White talks with Muppet medical resident Thumbs outside the dean's office.

podcast. The product is a learning tool and the student gets one-on-one interaction with an expert.

His approach to accessible surgical education has garnered popularity with medical students worldwide and with his colleagues: earlier this year, White was named a 3M National Teaching Fellow, Canada's highest honour for post-secondary undergraduate teaching.

Seven episodes of *Muppet Surgery* have been released this year, and a team of summer students is

preparing to make more. Future videos will centre on pop-culture themes, including zombies.

Each episode is filmed at the Royal Alexandra Hospital with the support of Alberta Health Services and students in the Digital Media and IT program at the Northern Alberta Institute of Technology.

The Surgery 101 podcasts can be downloaded for free through iTunes. All proceeds help fund the Tom Williams Endowed Chair of Surgical Education. ■



UNIVERSITY OF ALBERTA
UNIVERSITY GOVERNANCE

2014-15 General Faculties Council Standing Committees ACADEMIC AND SUPPORT STAFF NEEDED!

ACADEMIC AND SUPPORT STAFF interested in becoming an active member in the collegial governance system at the University of Alberta by serving on a General Faculties Council (GFC) Standing Committee for the 2014-2015 academic year, beginning July 1st, 2014, are invited to apply ON-LINE now!

www.governance.ualberta.ca to apply today!

Staff Deadline to Apply: Monday, March 31, 2014 at 4:30 pm

The terms of office for a number of academic and support staff members serving on General Faculties Council (GFC) Standing Committees, Appeal Boards, and committees to which GFC elects members will expire on June 30, 2014. Terms of office are normally three (3) years in length, July 1 through June 30.

The GFC Nominating Committee ensures the replenishment of the following GFC Standing Committees, Boards, and other bodies to which GFC elects, during its annual replenishment held each spring and as vacancies occur.

For details on the GFC standing committees 2014-2015 vacancies, terms of reference, memberships and schedules, please go to the University Governance website at www.governance.ualberta.ca

ACADEMIC GOVERNANCE:

ACADEMIC PLANNING COMMITTEE (APC): GFC's senior committee dealing with academic, financial, and planning issues.

ACADEMIC STANDARDS COMMITTEE (ASC): GFC committee dealing with admissions, academic standing, transfer and examination policies, and other related issues.

CAMPUS LAW REVIEW COMMITTEE (CLRC): Reviews the Code of Student Behaviour, Code of Applicant Behaviour, and Residence Community Standards Policy.

COMMITTEE ON THE LEARNING ENVIRONMENT (CLE): Promotes an optimal learning environment in alignment with guiding documents of the University of Alberta.

FACILITIES DEVELOPMENT COMMITTEE (FDC): Recommends on planning and use of facilities, proposed buildings, and parking and transportation facilities.

UNDERGRADUATE AWARDS AND SCHOLARSHIP COMMITTEE (UASC): Approves new awards for undergraduate students including selection and eligibility criteria.

UNIVERSITY TEACHING AWARDS COMMITTEE (UTAC): Adjudicates: Rutherford Award for Excellence in Undergraduate Teaching; William Hardy Alexander Award for Excellence in Undergraduate Teaching; Provost's Award for Early Achievement of Excellence in Undergraduate Teaching; Award for Excellence in Graduate Teaching; and the Teaching Unit Award.

JUDICIARY GOVERNANCE:

GFC ACADEMIC APPEALS COMMITTEE (AAC) / UNIVERSITY APPEAL BOARD (UAB): AAC hears and decides student appeals regarding academic standing. UAB hears and decides student appeals and applicant appeals regarding disciplinary decisions made under the Code of Student Behaviour or Code of Applicant Behaviour.

OTHER BODIES TO WHICH GFC ELECTS:

COUNCIL ON STUDENT AFFAIRS (COSA): The aim of the Council is the betterment of the quality of student life at the University of Alberta.

DEPARTMENT CHAIR SELECTION COMMITTEE: Members are chosen in rotation from a panel of 15 to serve on Department Chair Selection Committees.

DISTINGUISHED UNIVERSITY PROFESSORSHIPS SELECTION COMMITTEE

EXTENSION FACULTY COUNCIL: Represents University interests on Extension's Faculty Council.

MUSEUMS POLICY AND PLANNING COMMITTEE: Advises University administration and governance bodies on matters relating to the University of Alberta Museums.

SENATE: Links with the community and is an independent advisory body of community leaders.

For all relevant GFC Committee Nomination Details, please view the University Governance website at: www.governance.ualberta.ca

CONTACT: Ann Hodgson, Coordinator, GFC Nominating Committee (NC), at 780-492-1938, or by e-mail: ann.hodgson@ualberta.ca. Interested applicants may drop by University Governance located in Room 3-04 South Academic Building (SAB) to speak to a GFC Committee Coordinator in person.

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Faculty of Education steps up to help restore Somali university

Cait Crawshaw

Before the civil war, Somali National University (SNU) was a thriving institution of higher learning, with 15,000 students, 700 staff members and 13 departments. Its alumni included the current president of the country, notable scientists, peace activists, humanitarians and dignitaries.

"It was a very fine university," says Ali Abdi, a Somali expat and University of Alberta education professor. "Everything was going well." But when the war erupted in the early 1990s, killing thousands and destroying much of the country's infrastructure, SNU was badly damaged. In 1991, its operations were suspended indefinitely.

"The future of the institution remained bleak for more than two decades as conflict continued to grip the East African nation, but now peace is finally getting a foothold. In November 2013, the government announced that SNU would be revived. The initiative is expected to cost US\$3.6 million.

The U of A's Faculty of Education has stepped up to help with the efforts. In 2013, Mohamed Jimale—a former leader in Edmonton's Somali community and now SNU's rector—connected with

Abdi about a potential collaboration between the two institutions.

"He wanted to know if we could help re-establish the Faculty of Education at SNU," says Abdi, who is also co-director of the Centre for Global Citizenship Education and Research. "It's one of the first faculties they want to create because it's critical to building teaching capacity in Somalia." At the moment, most Somali citizens have no education at all, and any teachers that still remain in the country haven't set foot in a classroom for decades.

"In the broadest sense, we see it as tied to our mandate and the idea of global citizenship."

George Richardson

Since connecting with Abdi, Jimale has visited the U of A on two occasions to meet with faculty members, including Abdi and George Richardson, associate dean of international initiatives. "He identified some of the needs SNU has in the Faculty of Education," says Richardson. "One of those direct needs is resources,

particularly books for the rebuilding of the library."

Richardson has been working with faculty members to gather up-to-date academic books to send to Somalia. In early March, the faculty mailed 400 books to SNU via the international courier DHL, the only mail provider currently serving the country.

SNU is also in dire need of training for future university instructors, and the U of A is stepping up to help meet this need as well.

"What we're trying to do is offer a series of professional development seminars," says Richardson. Because SNU is being rebuilt, and there is still some lingering conflict, these sessions will probably happen in Nairobi, across the border in Kenya. U of A faculty members will donate their skills and time on the ground, because online training would require technological infrastructure that's sorely lacking in this geographical zone.

Richardson isn't sure yet when the training sessions will be held. However, the faculty is collaborating with UNESCO and SNU's new dean of education, a U of A alumna named Fouzia Warsame, to make this happen.

It's a big project, but the Faculty of Education isn't new to this kind of partnership. For about seven

years, the faculty helped several Iraqi institutions rebuild after the war. Faculty members have also worked on projects in South Africa, Tanzania and several other East African countries.

"The faculty has a long history of international development work and a lot of people who are passionate about working in the developing world and sharing their

expertise," Richardson says. "In the broadest sense, we see it as tied to our mandate and the idea of global citizenship."

But while the initiative is philanthropic, U of A faculty and students also benefit, says Richardson: "It broadens our knowledge of the world."

For more, email george.richardson@ualberta.ca. ■

Former governor general talk to highlight Mandela's ideals

Andrew Patrick

University of Alberta professor Jennifer Kelly lights up when asked about the Right Honourable Michaëlle Jean's upcoming lecture at Convocation Hall.

"We're really hoping this will set things off, and that we'll have an event that highlights issues around the Canadian Caribbean and African diasporas," she says.

The event, taking place March 27, marks the official kickoff of an annual lectureship named in honour of Jean, former governor general of Canada. It forms part of a larger plan to raise the profile of African diaspora studies at the university, which Kelly hopes will include an endowed chair position.

Jean will be the evening's keynote speaker with a talk titled, "Mandela's Values and the African Diaspora: Why Should We Care?" The event promises to be a timely reflection on a man who became an icon of freedom and equality to many in the African diaspora around the globe.

"As Nelson Mandela showed his country and the world, a better society can only come if all are invited to sit at the table of democracy and justice," said Jean. "Likewise, the Canadian household promises to be more vibrant, fair and democratic with the full presence of peoples of African descent, and the inclusion of all marginalized communities.

"Excellent research is being conducted at the University of Alberta, and it's an honour to be associated with this lecture series."

Diaspora—an ancient Greek term for the sowing or scattering of seeds—refers to a scattering of peoples with common origin into a new geographical area. The African-Canadian diaspora includes many diverse groups, from new Caribbean émigrés to black pioneer communities established centuries ago. In Alberta, the largest of these groups began arriving in 1908.

Today, African-Canadians make up a growing population. About 145,700 new immigrants arrived in Canada from Africa alone between 2006 and 2011, making up 12.5 per cent of all newcomers during that period, according to Statistics Canada.

Kelly, who was born in Jamaica, grew up in England and lives in Canada, is quick to highlight the rich diversity of African-Canadian peoples. "That's a different experience from someone who has lived in the Caribbean all their lives," she says.

Jean is perhaps the most prominent public figure in Canada with diasporic roots. Born in Port-au-Prince, Haiti, she fled with her family to Quebec in 1968 when she was 11 to escape the dictatorial reign of François 'Papa Doc' Duvalier. She currently sits as UNESCO's special envoy to Haiti, where she promotes partnerships and investment in the island nation, a country still recovering from the devastating 2010 earthquake.

Jean is widely known as Canada's 27th governor general, a position she held until 2010, the first black woman to hold the title. Before that, she was an award-winning journalist and broadcaster, hosting a number of shows for Radio-Canada and CBC Newsworld, including *The Passionate Eye* and *Rough Cuts*.

Kelly, who chairs the Department of Educational Policy Studies at the U of A, sees Jean as an important voice representing African-Canadians in the public eye, especially given the changing face of race and racialization in Canada.

"Even though we may not live under apartheid in Canada, we still struggle with issues around racism, especially gendered racism, around employment and social mobility," says Kelly. "I think [Jean] recognizes some of the struggles that people go through when they relocate from one geographic space to another. In many ways, she has become a successful role model and offers a lot—in terms of her personality, her awareness of her own experiences and what that means for others."

The event starts at 6:30 p.m. March 27, at the U of A's Convocation Hall, and is free to the public. ■

Helping high school researchers get published

Bev Betkowski

Alexandra Martin has been working for months on the question of whether the United Nations Security Council is successful at intervening in civil wars—a heavy topic for a Grade 12 student.

"So it will be a fine day come this fall, when Martin, 17, and her Strathcona High School classmates, as budding researchers, post their findings on the University of Alberta's journal publishing platform—believed to be the first time a university library in Canada has partnered with a high school to publish a peer-reviewed journal.

The publication will have a home on the University of Alberta Libraries' open journal hosting service, an electronic platform that already hosts 29 peer-reviewed academic journals related to U of A research or faculty.

"It's an incredibly exciting opportunity to see my work being published and it's a nice payoff at the end of all this work to have something to show for it," said Martin, who has applied to the U of A to study medicine. In the course of her project, she interviewed a few U of A professors and wrote a paper—skills she knows will be handy when starting post-secondary classes.

"I learned how to get my own sources and how to conduct an interview. That's going to be helpful when I have to balance research work on top of my course load."

Hosting the high school journal—and hopefully others like it—is key to the U of A Libraries mandate, said Gerald Beasley, vice-provost and chief librarian for the U of A.

"This is part of what libraries do, the same as lending books," he said. "U of A Libraries is committed to disseminating new knowledge, and this project with Strathcona High School is an opportunity to take community knowledge and make it more widely available."

The project also opens the way for other high schools and community groups in Alberta that don't happen to be affiliated with the U of A to have similar materials published on the university's open access journal system, Beasley said.

"We are proud to have established this publishing platform, and we are opening it up to any community group in Alberta."

The results can be accessed by any curious member of the public who wants to browse research findings and learn the latest about different topics, he noted.



Greg Henkelman and Alexandra Martin

Extending the free service to the community is an important part of the university libraries' commitment to the U of A's promise of uplifting the whole people, Beasley added.

"Open access to information for all is important; it's not behind a pay wall. Over the last decade there's been huge growth in open academic research and we believe that is important, because it touches all people—clinicians, those in the business field, taxpayers."

The Strathcona High School journal, tentatively named *The Cornerstone*, will be peer-reviewed as other online academic journals are, and will feature findings based on analysis and research conducted by Grade 11 and 12 students through the school's new Advanced Placement Capstone Diploma program.

The students learn to analyze source documents such as academic journal articles and media stories, evaluate arguments and conduct independent research that results in the writing of "mini-theses," said Greg Henkelman, AP curriculum co-ordinator and AP Capstone co-ordinator at Strathcona High School.

The first issue, with topics ranging from the mental benefits of Matcha tea to Quebec policy on religious garb, publishes this fall, with plans to produce it on a twice-yearly or quarterly basis.

For his students, the collaboration between the school and U of A Libraries is a meaningful academic stepping stone, Henkelman said.

"Being published in a peer-edited journal, taking that work and sharing it with a broader audience is a strong reward for students," he added. "It's nice to have a library system that is willing to support our students in exposing their work, and we are grateful to the U of A for that." ■



Michaëlle Jean

Online research forum builds digital bridges to the Ukraine

Bev Betkowski

A new research alliance formed by the University of Alberta with a pair of universities in Ukraine and two other Edmonton post-secondary institutions is providing insight into that country's political turmoil and its rich culture.

A joint web project, called the Contemporary Ukraine Research Forum, brings researchers of all disciplines together from the U of A, MacEwan University and Concordia University College, along with the Ukrainian Catholic University and the Kyiv Mohyla Academy National University.

Together the scholars are sharing perspectives with one another, and with all who want to visit the website, helping make sense of the flood of information that spills out daily about events evolving in Ukraine, as well as researching other diverse aspects of life in that country.

The research forum grew out of a social and political movement known as Euromaidan, which took root in Ukraine in late 2013, as

millions of citizens protested against their government's refusal to enter an association agreement with the European Union. The movement has since escalated into violence as the country struggles in its current state of national unrest, torn between Ukrainian and pro-Russian loyalties.

By digitally linking researchers in Canada and Ukraine, the forum strengthens the U of A's Ukrainian research collaborations and brings together perspectives on contemporary history as it is being made, said Olenka Bilash, co-director of the project and professor in the Faculty of Education.

"Through social media, there is so much information that has become available about Euromaidan, but that doesn't mean that all of it is accurate or critical, or that everyone understands it. We've created an electronic gathering place that provides a variety of engaged perspectives from political and social scientists, historians, bloggers and media reports, to increase accuracy of information and enable deeper understanding and discussion."

As a person of Ukrainian heritage whose family immigrated to Canada in the 1890s, Bilash feels a keen sense of commitment to help guide the project in her role as an academic.

"I feel a huge responsibility as someone who works at a university to ensure that others, especially our students, know about these kinds of world events and can engage with them as they unfold. This requires having access to accurate information and interpretations by those living the experience, as well as top scholars from inside and outside the country."

Currently there are 49 scholars from Canada and Ukraine—including 18 from the U of A—contributing to the forum, with the potential for more to join individual and team projects in the English, Ukrainian and Russian languages.

Through monthly video conferences and the free flow of information offered by the forum website, the Canadian and Ukrainian scholars conduct research through the diverse lenses of social and political sciences, economics, media studies, religion, folklore, literature and linguistics.

The forum plans to publish a peer-reviewed journal beginning later this year, highlighting some of the studies and essays resulting from collaborative research. The first issue will be dedicated to Euromaidan, Bilash noted, in recognition of a "global phenomenon" taking root in other countries such as Venezuela and Syria, where citizens are struggling for their rights.

"We need at that global level to understand what is happening in these many places."

The forum project is funded by the Kule Institute for Advanced Study and the Canadian Institute

of Ukrainian Studies, both based at the U of A, as well as the Ukrainian Resource and Development Centre at MacEwan University and the Alberta Foundation for Ukrainian Education Society. ■

Socking it to the pacemaker

Nicole Basaraba

An international research team that includes a University of Alberta engineering professor has designed a 3-D silicone "heart sock" that could eventually replace the venerable pacemaker.

Hyun-Joong Chung, professor of chemical and mechanical engineering at the University of Alberta, John Rogers, professor of engineering and chemistry at the University of Illinois, and Rogers' research group were co-authors of two recent articles published in *Nature Communications* and in *Advanced Healthcare Materials* on the development of the heart sleeve, which is designed to monitor vital signs.

"My role specifically involved developing the first stretchable multiplexing chemical sensor, namely a pH sensor with multichannel mapping ability," said Chung. "The pH sensor array was embedded in the heart sock format, enabling real-time observation of the heart's chemical activities."

The researchers embedded 68 tiny sensors into a sheet of silicone that they fit around a 3-D printed replica of a rabbit heart. The circuits were laid out in a curved, S-shaped design that allows them to stretch and bend without breaking.

The heart sock physically resembles the shape of the pericardium, the naturally occurring membrane surrounding the heart. The sensors in the soft, flexible membrane track vital signs such as temperature, mechanical strain and pH. The device is designed to maintain a stable fit to the heart tissue, while exerting minimal force on the contracting and relaxing heart muscle.

The heart sock could be used to identify critical regions that indicate the origin of conditions such as arrhythmias, ischemia or heart failure—information that could guide therapeutic interventions.

The finished design will feature electrodes capable of regulating heartbeat, like a pacemaker, and it could counteract heart attacks. Although human trials may be a ways down the road, doctors and researchers recognize the significant potential of the technology.

The team is now looking at ways to dissolve the implant in the body once it is no longer needed and finding the optimal way to power the electrodes embedded in the device. They are also looking at opportunities to use the device to monitor other organs.

"I am currently pursuing various polymeric material systems that are stretchable and can be installed into living organs," Chung said. "One can simply envision cell scaffolds or surgical adhesives from such an approach."

Chung notes that many of the key technologies from this research could also be adapted to industrial uses, such as wear-resistant coatings for drills.

"The next step will be to develop a novel processing pathway to fabricate non-conventional electronic devices," he said. ■



The online Contemporary Ukraine Research Forum brings together perspectives on Ukraine's history as it is being made.

Alberta diabetes researchers receive funding boost

Cait Wills

Diabetes research at the University of Alberta received an injection of funding, thanks to a new collaboration with Johnson & Johnson that will allow researchers across Campus Alberta to come together to fight Type I and Type II diabetes.

The competitive fund, announced March 18 by D. Douglas Miller, dean of the Faculty of Medicine & Dentistry, is the product of leveraging funds from Janssen, part of the Janssen Pharmaceutical Companies of international conglomerate Johnson & Johnson, and matched funds from the Government of Alberta and the Alberta Diabetes Foundation. This newly created \$600,000 fund, says Miller, will allow scientists to focus on novel discovery-based research with a high potential for commercialization.

"I stand here as a testament that diabetes research in Edmonton really does work," said Bob Teskey, member of the board of the Alberta Diabetes Foundation and patient number four of the Edmonton Protocol, the breakthrough islet cell transplantation treatment developed by U of A researchers.

Through the collaboration, the Alberta Diabetes Institute and technical experts from Johnson & Johnson Innovation Center in California will jointly identify several high-potential opportunities from medical researchers and award up to \$50,000 for one year, including indirect costs from the research fund. All aspects of diabetes research are eligible to apply for funding. Proposals are expected to lead to further development of drugs, devices, cell therapies and processes that relate to the diagnosis, treatment and management of Type I or Type II diabetes.

"Alberta's decades-long commitment to diabetes research has brought groundbreaking discoveries and better quality of life for diabetes sufferers," said Fred Horne, minister of health. "Working collaboratively with our innovation system, Campus Alberta and across the public and private sectors, means we can move promising discoveries to the marketplace faster."

More than nine million Canadians currently live with either pre-diabetes or Type I or Type II diabetes, so this type of research is critical to patients like eight-year-old Bryan Kaliel. He is an "unstable" Type I diabetic who was diagnosed three years ago. He is extremely sensitive to insulin and his blood-sugar levels fluctuate wildly. A cure for diabetes, says his mother Billie-Jo, would be life-changing.

"When your child is born, you write their story in the first few minutes, and diabetes is never in the pictures," she said. "A cure for diabetes would mean being able to rewrite Bryan's story again, without insulin or needles."

"For now, every day is complicated."

"This private-public partnership fund will accelerate the development and validation of health-care technologies within Alberta, which is known for life-changing research in the causes, prevention, treatment and management of diabetes," said Miller. "Leveraging the knowledge across Campus Alberta through matching funds from Janssen, the Alberta Diabetes Foundation and the Government of Alberta is good business for great science." ■



Health Minister Fred Horne has his blood sugar tested during the announcement of a \$600,000 fund for diabetes research March 18.

Open Space Master Plan

Symposium:

Enhancing your campus experience

The Open Space Master Plan provides the framework for the spaces that connect the buildings on campus. These spaces influence the university community's daily activities and the campus experience. Join us to learn more about the plan and shape its development.

THURSDAY, MARCH 27, 2013
CCIS 1-140 | 7 - 8:30 P.M.

KEYNOTE SPEAKER: Douglas Olson, President,
O2 Planning + Design and project consultant
MODERATOR: Robert Lederer, Associate Professor,
Design Studies, University of Alberta

www.communityrelations@ualberta.ca | Info: 492-4345

**POP-UP
CONSULTATIONS**
MARCH 27
NOON - 1 P.M.
Arts Quad, CCIS West Atrium
and Education North
under the mural

**UNIVERSITY OF
ALBERTA**

news [shorts]

folio presents a sample of some of the stories that recently appeared on the ualberta.ca news page. To read more, go to www.news.ualberta.ca.

Students win engineering, business competition

A multidisciplinary team of University of Alberta students took the top spot at an international competition that combines engineering creativity and know-how with business savvy.

The Engineering and Commerce Case Competition, held in Montreal March 12–16, pitted teams from all over the world against each other in a series of events to develop engineering and business plans to solve challenges.

The team consisting of fifth-year chemical engineering students Brad Leonard, Henry Lau and Ahmed Ibrahim, along with Alberta School of Business student Scott Jeles, won the first day's event, which had teams design a blower using composite materials.

On day two, the U of A finished a close second in a challenge that asked teams to improve the operation of a brewery warehouse.

The top four teams competed on the final day to see which team could make the best use of brain-computer interface technology. The U of A team won with a design for a baby monitor that gives parents direct feedback on the baby's sleep status and general well-being.

Bill Pick, who holds the McGee Chair in Process Design in the Department of Chemical and Materials Engineering, formerly global process engineering technology leader with Dow Chemical, supervised the team. "This competition demonstrates many characteristics we want in our engineers," said Pick.

U of A deepens ties to Vietnam, Brazil

Hanoi University of Mining and Geology is keen to develop its collaboration with the U of A in the areas of student and staff mobility following the recent signing of a general memorandum of understanding.

HUMG plans to increase the number of courses offered in English and is interested in having U of A professors visit and offer week-long courses. Professors interested in this possibility may contact jinjia.xu@ualberta.ca.

The U of A already has several undergraduate alumni of HUMG pursuing graduate degrees here, including some sponsored by the Vietnamese government under their extensive graduate scholarship program. The U of A also has a co-funding arrangement with Vietnam's Ministry of Education and Training for students under this program.

Universidade de São Paulo is one of the top universities in Latin America, ranking first in South America and 127th worldwide in the 2013 QS Top Universities ranking. The recently signed reciprocal exchange agreement will allow both undergraduate and graduate U of A students to take classes at USP.

The exchange agreement builds on existing collaborations between the U of A and USP, involving faculties such as agricultural, life and environmental sciences; nursing; and pharmacy and pharmaceutical sciences.

Golden Bears upend Dinos to win the West

The CIS No. 1 ranked Golden Bears hockey team booked their spot at the University Cup tournament with a 2-1 game two win over the No. 3 ranked Calgary Dinosaurs March 8 at Clare Drake Arena. The win clinched the Bears' second consecutive Canada West championship banner and trophy, and the 51st in program history.

Freshman Jamie Crooks and fifth-year forward Torrie Dyck did the damage for the Golden Bears, while first-year goaltender Luke Siemens stopped 15 of 16 shots to earn the win.

The game two win came on the heels of Alberta's dominant 8-1 victory March 7.

The Golden Bears head to Saskatoon for the 2014 University Cup tournament as the top seed. The championship runs March 20-23 at Credit Union Centre in Saskatoon.

Meanwhile, the third-seeded Golden Bears eagles are the CIS bronze medallists thanks to a 61-53 victory over the No. 4 Victoria Vikes in the bronze-medal match of the ArcelorMittal Dofasco CIS men's basketball championship at the Canadian Tire Centre in Ottawa March 8.

Pandas rink wins world juniors

The Pandas curling team of Claire Tully (arts), Keely Brown (nursing), Kelsey Rocque, Taylor McDonald and Alison Kotylak (all from physical education and recreation) won the World Junior Curling Championships in Flims, Switzerland, on March 5.

The win marks the first time in 11 years that a Canadian team has won on the women's side, and the second time in three years that a U of A curling team has brought home the gold. Brendan Bottcher and his team won the junior men's championship in 2012.

U of A grabs pair of bronzes at track nationals

The host Golden Bears and Pandas finished with a pair of medals at the CIS Track and Field Championships held March 6-9 at the ButteDome. Fourth-year Golden Bear Stephen McPhee earned CIS bronze in the men's pentathlon, and fifth-year Panda Courtney Wilkes concluded her CIS career with a bronze in the triple jump.

Opening up a world of possibilities

Elizabeth Ng

More than 40 students from the Faculty of Agricultural, Life and Environmental Sciences embarked on life-changing experiences as they volunteered in communities in Edmonton and around the world.

The students participated in one of three ALES Alternative Reading Week trips, which took them to Cuba, India and inner-city Edmonton this year. The community service-learning trips gave the students an opportunity to make connections between what they've been learning in class and what's happening in the world around them.

The trip to Cuba centred on Cienfuegos, on Cuba's south coast. The students toured urban gardens, worked at local farms and explored the local wilderness to learn about approaches to ecology, agriculture and sustainability.

"I've always been interested in Cuba and wasn't keen on the idea of going as a tourist and staying at a resort," said agriculture student Marcin Makarewicz. "I heard about this trip where we're engaged in the community and I thought it was the perfect opportunity to go."

Second-year agriculture student Casey Morey tried to get rid of any preconceived notions before her trip to Cuba, but she's not sure she succeeded. The group visited a Cuban dairy farm, something she knows well from growing up on a dairy farm near Edmonton. The visit quickly showed her she still held opinions about Canada's superiority.

"When I went down there, the dairy farm shocked me. It was more technologically advanced than I thought, and to be able to go and see that just because they may not be as economically strong or further ahead, they still have the innovations to get things done," said Morey.

For the trip to India, near the city of Bangalore, ALES partnered with The Pipal Tree, an organization that works with isolated indigenous people to help them live and work with the modern world. Students established a kitchen garden that will supply meals at a school, visited villages to discover changes in traditional diets and how they are affecting well-being, and heard about issues facing garment workers in the area.

The experience caused Danielle Lu to consider her own "bubble."

"I really felt the struggles that are going on in India and how I take everything for granted back home," said Lu, a fourth-year nutrition student. "Women's rights

are a big issue there. Here I can walk outdoors and not have a problem. There, the violence and injustice against women is a really big issue. It made my problems seem petty."

Other ALES students looking to learn about issues of poverty, homelessness, food security and community development at a local level signed up for a three-day program partnering with The Mustard Seed, a social service agency in inner-city Edmonton.

Students learned about the organization's programs, met and ate with the agency's clients, and immersed themselves in inner-city life, spending two nights in a downtown house owned by The Mustard Seed.

Fourth-year human ecology major Rebecca Saul said the hardest part was spending a day out on the streets.

"We had to be out of the house by 8:30 a.m. and we had to stay out until dinner at 5 p.m. We had to find a way to fill our time and get to organizations that offer resources like a free lunch. But not having anything to do or any sense of purpose was really hard. It was incredibly different from our lives—as students, you always have things to do. We glorify that busy thing, how much we do and accomplish in a day, and not having those tasks that make you feel worth something was really difficult," said Saul.

For some of the students, their Alternative Reading Week experience solidified their future direction.

"It gave me ideas for what I can do in the community garden I'm in charge of. It also gave me ideas for grad school. I've looked up programs nearby and I'm set on a master's in sustainable food systems," said Makarewicz upon his return from Cuba.

Rebecca Saul said her time at The Mustard Seed reinforced her plans.

"I'm going into community development and social planning, and this convinced me that this is what I want to keep doing; be change at a local level and empower individuals."

For others, the trips made them rethink their future plans.

"I feel I have to just try to help the marginalized groups in Edmonton and get involved locally," said Ninfa Garay, a fourth-year nutrition student who went to India. "It made me want to be more involved with groups that might not be able to afford to go to see a dietitian, at the grassroots level rather than in a hospital setting."

"It gave me the idea that there are lots of options out there," said Morey. "It broadened my focus. I never would have imagined I could travel with agriculture—but now the whole world is open to me."



ALES students Daralynn Pilkie, Janelle Lee, Ninfa Garay, Lisa Pingle and Kimia Stevens do some planting in the circle kitchen garden of a children's college in India during their recent Alternative Reading Week trip.

laurels

Justice Russell Brown, former professor in the Faculty of Law, was appointed to the Alberta Court of Appeal. Brown left the University of Alberta in February of 2013 to take an appointment to the Alberta Court of Queen's Bench. From 2011 to 2013, Justice Brown acted as the associate dean (graduate studies) of the Faculty of Law; during this time he was also a research fellow of the Health Law and Science Policy Group (now part of the Health Law Institute). He is a past chair of the Health Law Institute Board and a past member of the board for the Canadian Forum for Civil Justice, and has chaired both the University Appeals Board and the University Practice Review Board. He has also chaired or served on the executive of various subsections of the Canadian Bar Association, in addition to serving on committees of the university's General Faculties Council and the Law Society of Alberta.

Maria Mathai, director of M.M. Advisory Services, an international education consultancy firm, was awarded a Governor General's Gold Medallion for advancing Canada's education interests in India. Mathai provides on-the-ground recruitment and advising in India for Canadian secondary schools, colleges and universities, including the U of A.

Startup School gives students a look at entrepreneur and investor playbooks

Richard Cairney

Entrepreneurial engineering students got a first-hand look at what will and won't work in startups when new companies are looking for investors, during a presentation by entrepreneur and investor Michael Sikorsky and the CEO of a company that raised \$2 million last fall.

"I found this presentation really insightful and helpful," said computer engineering student Erick Ochoa, who attended with two partners he is working with on a startup. "What I liked about it is that Michael really challenged the way I was thinking about things."

Sikorsky, who graduated from the University of Alberta in 1996 with a degree in computer engineering, is the founder and CEO of Robots and Pencils, a company that produces apps. Sikorsky is also the Faculty of Engineering's entrepreneur-in-residence, leading an extracurricular program that teaches engineering students how to build their own companies.

Sikorsky, presenting with Stephen Butler, the president and founder of Gummii Inc., offered practical advice on how to make pitches to investors, how to recognize different types of investors and what motivates them, and when in their company's development they should ask for money.

He even instructed the students to avoid getting outside investors if they didn't need to.

"You guys are all engineers. You can make things," he said. "If you're an engineer and you can make stuff and you're not starting a capital-intensive operation—why would you even want an outside investor? If you can go as long as possible and not take people's money, that means you are nailing it."

He did, however, show off presentations made to him by companies that were successful in getting his interest (and money) as an investor, and those that weren't. Sikorsky likened a good pitch presentation to potential investors to a game of pool that involved only crisp, clean, straight-ahead shots. Investors, he said, need at first to know simple A-to-B strategies of how a startup plans to solve a problem or beat its competitors. He advised a simple, uncluttered approach.

"Just because you can build this big, complicated Rube Goldberg kind of a device—don't show that to investors. Hide it. Look at Google: it's a clean screen with lots of complex stuff going on behind the scenes."

Butler presented the same pitch he used last fall at business pitching events. The pitch won him \$2 million in investments; since then, he and his company have launched the first math app for kids that has cracked the iTunes App Store's top 25 list.

In his eight-minute presentation, Butler told a story about the company's plans in a straight-ahead manner, identifying competitors and their shortcomings and positioning his company's solutions.

"This has been really helpful," said second-year computer engineering

student Usama Arshad, who attended three of the fireside chat events. "The most valuable thing we get here is the experience of people who have been doing this for a long time. You get to learn what the myths are and what the realities are." ■

Nothing but stubble



Members of Farmhouse, an agriculture fraternity, get their heads shaved to raise money for cancer research in the Agriculture/Forestry Centre March 19.

talks & events

Talks & Events listings do not accept submissions via fax, mail, email or phone. Please enter events you'd like to appear in folio and at www.news.ualberta.ca/events. A more comprehensive list of events is available online at www.events.ualberta.ca. Deadline: noon one week prior to publication. Entries will be edited for style and length.

UNTIL MARCH 29

And there's the humor of it: Shakespeare and the Four Humors. Come see this exhibit that explores the links between Shakespeare's work and the history of science and medicine. John W. Scott Health Sciences Library.

UNTIL MARCH 23

Printed Matter: Current Positions in Austrian Printmaking. Exhibit shows how the media, technique and theme of the art works of eight contemporary Austrian print-artists vary, thus providing a valuable snapshot of current Austrian printmaking. FAB Gallery.

MARCH 7-29

Earth Hour: Campus Challenge. Thirteen post-secondary institutions from across Alberta are teaming up to take part in the One Hour, No Power: Campus Challenge to see which school can get the greatest participation from students, staff and faculty to pledge to power down for Earth Hour 2014. Make your pledge at sustainability.ualberta.ca/earthhour.

MARCH 22

Alumni/Student Hockey game. Alumni/Faculty hockey players, bring the kids and family to our one-hour free family skate before the game starting at 5 p.m. 5-8 p.m. Clare Drake Arena.

MARCH 24

How the West Was Not Won: Beyond Larry McMurtry and Annie Proulx. Peter Swirski, professor of American Literature and Culture at the University of Missouri-St. Louis and former professor at the U of A, will be on hand to give this talk. During his three years at the U of A, Swirski was honoured for his teaching in McLean's Guide to Canadian Universities as a favourite professor. To honour his teaching, his former U of A students recently established

a fellowship in literary studies in his name. 2-3:20 p.m. 1-91 Tory.

MARCH 24 & APRIL 3

"What the eFs!?!: Why Our Research Matters Now? Then?" Don't miss the final two panels in the Department of English and Film Studies 2013/14 series of colloquia. On March 24, panelist will answer the "Now" part. On April 3, current and recent graduate students will answer the "Then." 3:30-5 p.m. L-3 Humanities Centre.

MARCH 24

SF: String Figures, Multispecies Muddles, Staying with the Trouble. Donna Haraway, professor at the University of California-Santa Cruz, will be giving this keynote as part of Knowings and Knots: Methodologies and Ecologies in Research-Creation. For those who cannot attend in person, Haraway's Keynote will be livestreamed. 5:15-7 p.m. Faculty Club.

MARCH 25

Concrete Sculpture Workshop with Concrete Cat. Presented by Lafarge Concrete, this event will see Join Matt Heide, concrete artist and owner of Concrete Cat Design House, instruct a concrete sculpture workshop in which guests will cast concrete objects chosen to evoke memories of the schooling of an engineer. \$15, register at www.engartshow.ca. 2-4 p.m. 1-106 NREF.

Michener Park sector plan open house.

Please join the U of A for the final open house in a series of four, regarding the sector Plan for the Michener Park student residence. Questions should be directed to Emily Ball at (780) 492-4345 or emily.ball@ualberta.ca. Information presented on March 25 will be available at www.communityrelations.ualberta.ca the following day. Comments on the plan

will be accepted until April 4. 5:30-8:30 p.m. Malmo Community Hall.

MARCH 26

Hockey Analytics: The new wave of information and the online fan community that is driving the field. Sunil Agnihotri, MA (U of A) and Michael Parkatti, MSc (London School of Economics) will be on hand to discuss the importance of hockey analytics as more stakeholders are examining data and developing new ideas regarding the game. With the advancement of communication technology and analytic tools, fans have taken a greater role in developing new methods of measuring team and player performance. New ideas are often communicated and developed amongst fans through blogs, message boards and other social media tools. Noon-1 p.m. 2-958 Enterprise Square.

Lecture: Lem-Polemics. Peter Swirski, professor of American Literature and Culture at the University of Missouri-St. Louis, is recognized around the world as the leading scholar on Polish author Stanislaw Lem, who was responsible for science fiction mainstay Solaris. 2-3:20 p.m. 1-91 Tory.

MARCH 27

Open Space Master Plan Symposium – Enhancing your campus experience. The Open Space Master Plan provides the framework for the spaces that connect the buildings on campus. These spaces influence the university community's daily activities and the campus experience. Through this plan, opportunities for enhancements to the university's open space system, are being identified, further strengthening our goal of creating a functional and inviting experience for students, faculty, staff and visitors. Keynote Speaker is Douglas Olson, president of O2 Planning

+ Design and project consultant.

Moderator will Robert Lederer, associate professor of Design Studies at the U of A. Information session will be held noon-1 p.m. in the Arts Quad, the CCIS West Atrium and in Education North under the mural. Symposium will go 7-8:30 p.m. 1-140 CCIS.

Educated Reel. Pomegranates and Myrrh (Al Mor wa al Rumman). A Palestinian woman is caught between her desire to dance and society's taboos about the role of a prisoner's wife. Join the film's composer and U of A alumna Amritha Vaz, '97 BA, '02 LLB, for a discussion following this debut feature film from award-winning filmmaker, Najwa Najjar. \$6 in advance \$10 (adults), \$8 (students/seniors) at the door. 7 p.m. Garneau Theatre.

MARCH 27

East Campus Village – infill housing and Saskatchewan Drive residence. As a part of the university's extensive efforts to expand student-housing

options, new residences are being planned on university properties in the East Campus Village. Faculty, staff, and students as well as the general public now have another opportunity to view the preliminary designs and see how these designs for both the Saskatchewan Drive residence and the infill housing meet the infill guidelines. Noon-1 p.m. CCIS west atrium, and 5:30-8 p.m. Telus Centre.

APRIL 4 & 5

Mixed Chorus 70th Anniversary Celebrations. Celebrate 70 years of song and friendship with your fellow Mixed Chorus Alumni. For more details, go to alumni.ualberta.ca/events/edmonton/mixed-chorus.

APRIL 4

Mainstage: World Music Sampler. Winspear Centre. 8-10 p.m.

classified ads

ACCOMMODATIONS FOR RENT

VACATION OR WRITING RETREAT – OKANAGAN, B.C. Spacious 2 bedroom ground floor of private chalet at Lake Okanagan Resort. Sleeps 4. 2 bathrooms, kitchen, living ng, laundry. Large private terrace with flowers, BBQ and 180 degree clear view of Lake. Wi-Fi. Use of all hotel facilities on 300 acres with one mile lakefront - nine hole golf, tennis, marina, beach, trails, restaurants, spa. Many golf courses and wineries nearby. Email for low rates in spring, summer or fall, details and photographs: cleggmichael@gmail.com.

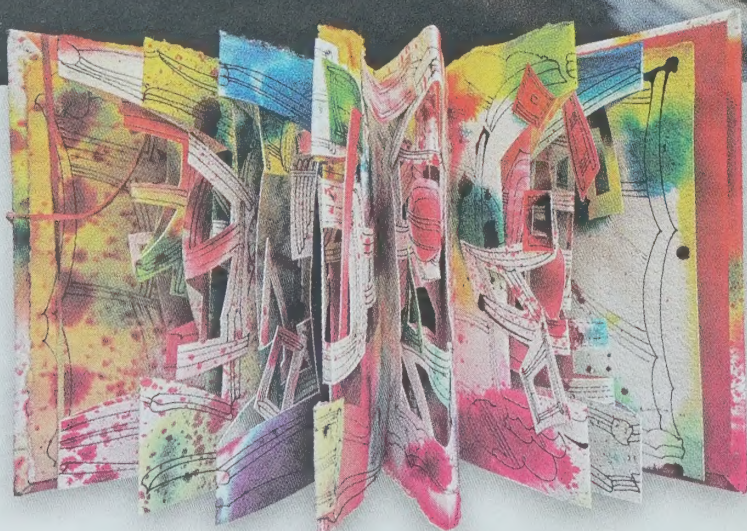
ACCOMMODATIONS WANTED

HOUSE/PET SITTER. 2014 – 2015 Faculty and excellent Border Collie seeking accommodation during home rebuild. Shannon. shansong@shaw.ca.

BOOKS THAT POP



"Wow, Open This!" Paper Engineering in Books and Artists' Books, on display in the Bruce Peel Special Collections Library until June 6, looks at the art and science of movable elements incorporated into books. Pop-up books are used mainly as entertainment today, but they were first used to illustrate topics such as geometry, architecture, medical and natural science, cryptography, astronomy, calendars, time telling, navigation and cosmography. Variations of the pop-up book are also used by artists to challenge our assumptions about what a book really is.



PHOTOS | RICHARD SIEMENS
MARKETING & COMMUNICATIONS